



1/7

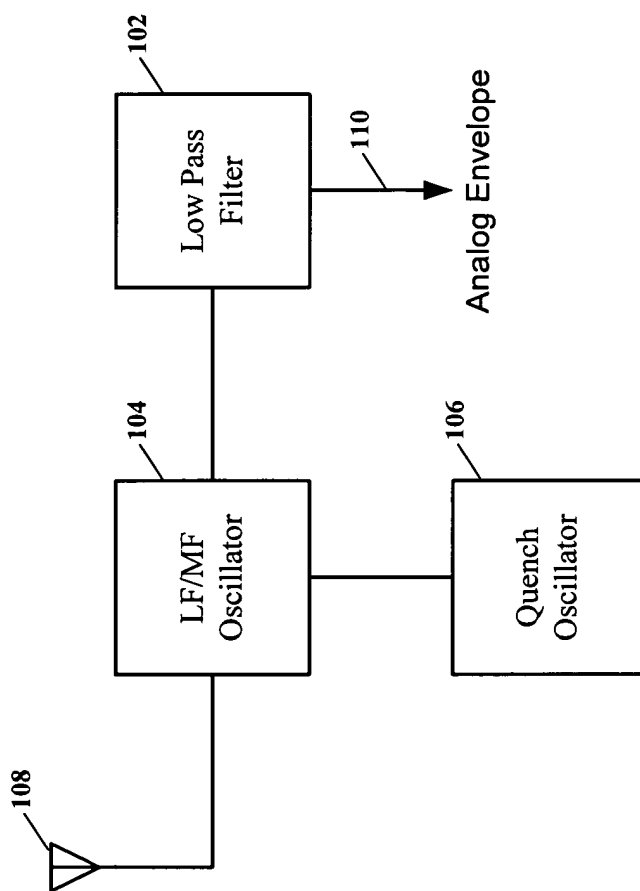
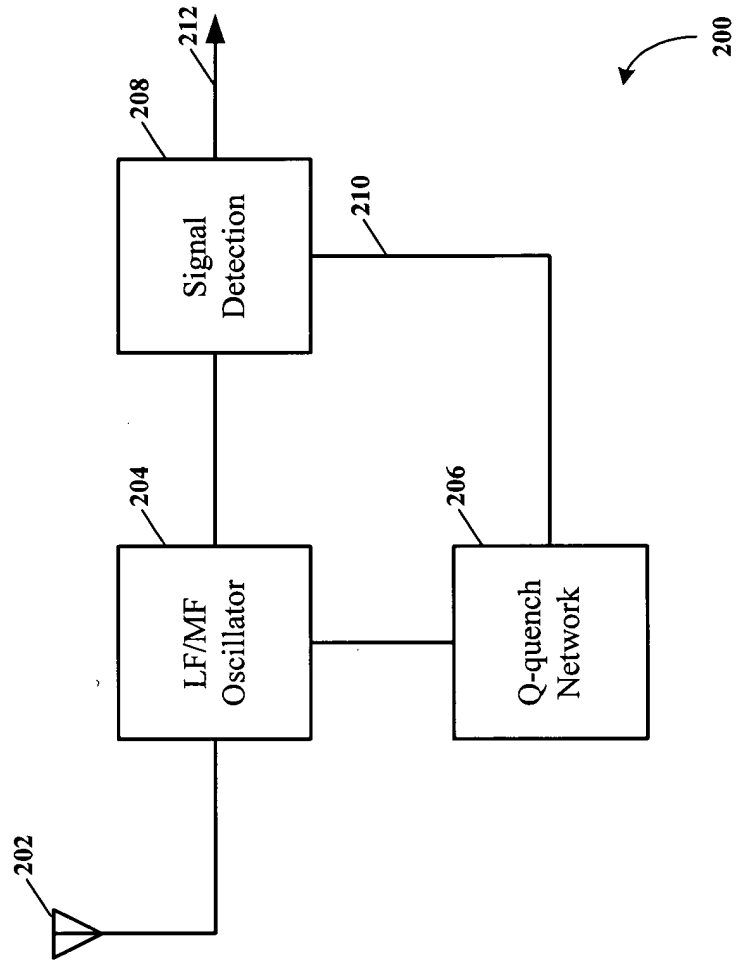


FIGURE 1 (Prior Art)

**FIGURE 2**

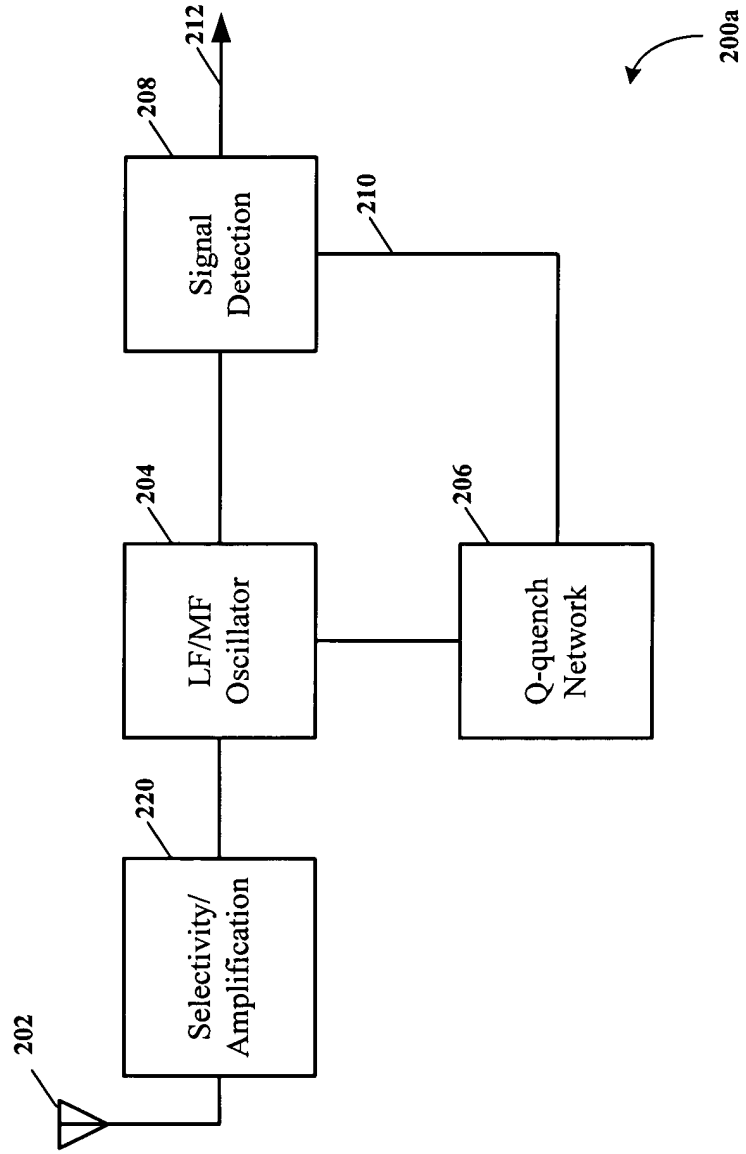


FIGURE 3

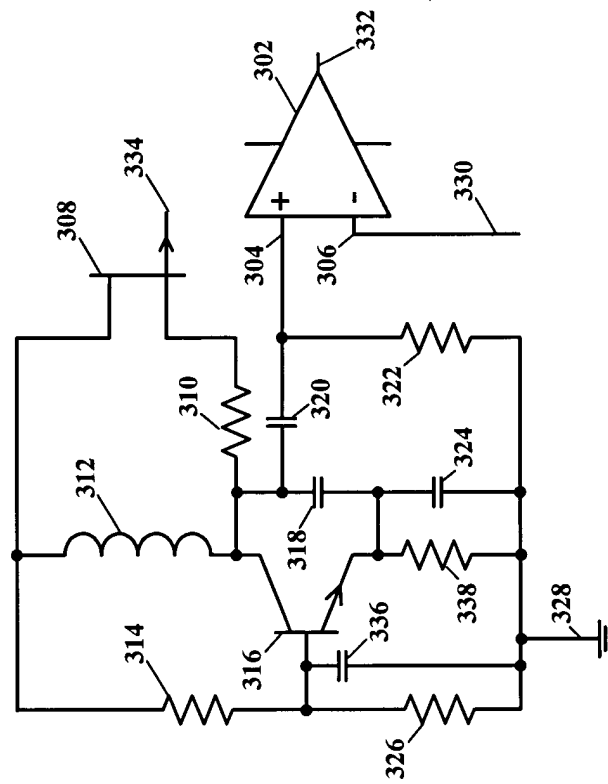
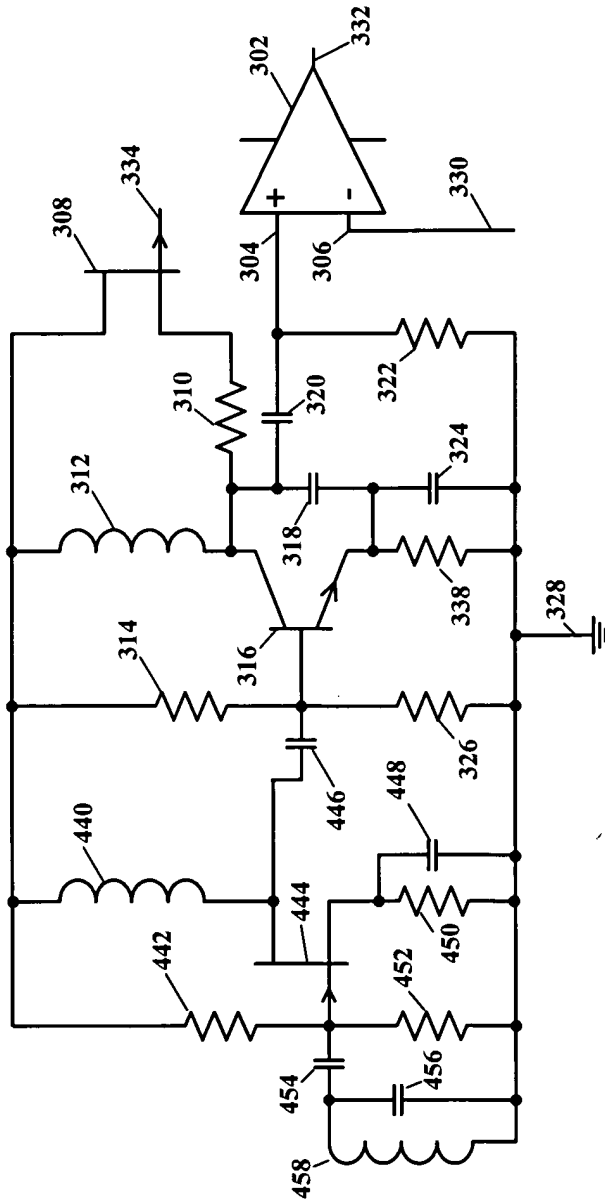
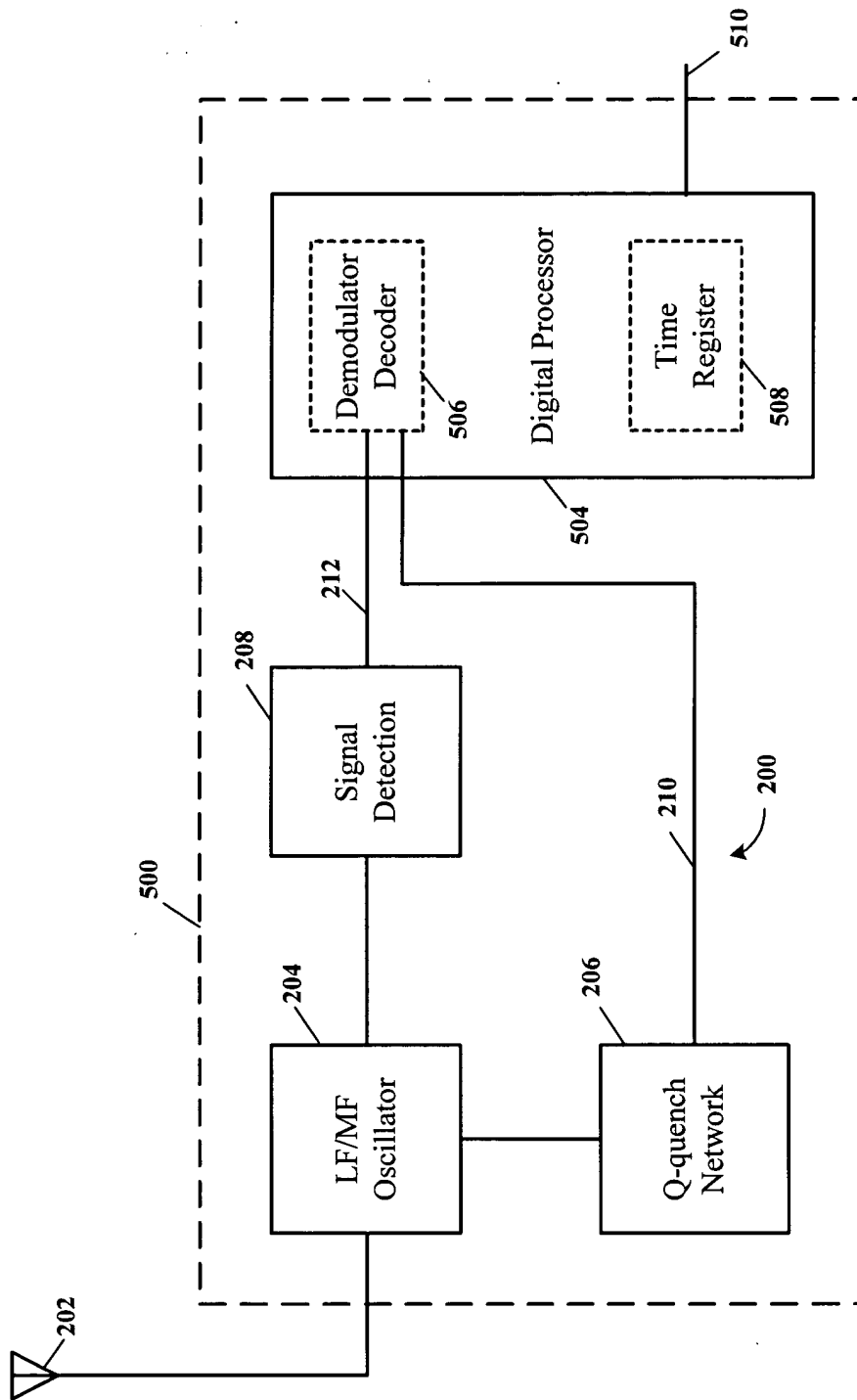


FIGURE 4

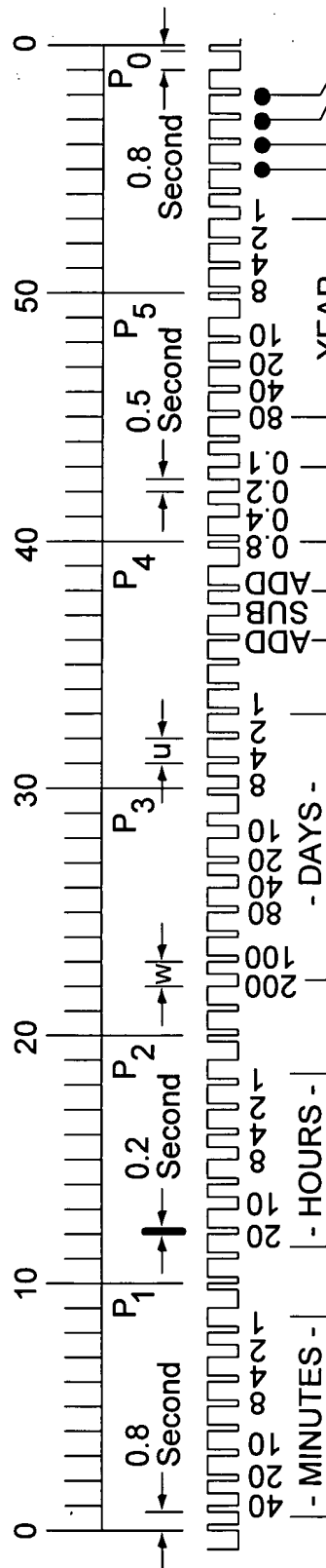
**FIGURE 5**

**FIGURE 6**

WWVB TIME CODE FORMAT

ON TIME POINT A

TIME FRAME 1 MINUTE
(Index count 1 second)



7/7

1 PPM FRAME REFERENCE MARKERS

BINARY CODED DECIMAL YEAR AND TIME-OF-YEAR

CODE WORD (31 bits)

6 PPM POSITION (IDENTIFIER MARKERS (P_0 thru P_5))

(reduced carrier 0.8 second duration plus 0.2 second duration pulse)

W – WEIGHTED CODE DIGIT (carrier restored in 0.5 second – binary one)

U – UNWEIGHTED CODE DIGIT (carrier restored in 0.2 second – binary zero)

UTC AT POINT A

2001

258 DAYS

18 HOURS

41 MINUTES

59.3 SECONDS

DAYLIGHT

SAVING TIME BITS

(see text for

interpretation of Bits)

LEAP SECOND

WARNING BIT

LEAP YEAR INDICATOR BIT

"0" = NON LEAP YEAR

"1" = LEAP YEAR

Figure 7